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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,411	08/20/2003	Jean-Francois Riou	STO1004 US CIP	7926
5487 ANDREA Q. R	7590 10/04/200 YAN	EXAMINER		
	NTIS U.S. LLC	PERREIRA, MELISSA JEAN		
MAIL CODE: 1			ART UNIT	PAPER NUMBER
BRIDGEWATI	ER, NJ 08807	·	1618	
			NOTIFICATION DATE	DELIVERY MODE
			10/04/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPatent.E-Filing@sanofi-aventis.com andrea.ryan@sanofi-aventis.com

Office Action Summary		Application No.	Applicant(s)				
		10/644,411	RIOU ET AL.				
		Examiner	Art Unit				
		Melissa Perreira	1618				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS ansions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Poperiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICA 6(a). In no event, however, may a reply ill apply and will expire SIX (6) MONTH: cause the application to become ABAN	ATION. y be timely filed S from the mailing date of this communication. IDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>12 September 2007</u> .						
′—	This action is FINAL. 2b) ☐ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)🛛	4)⊠ Claim(s) <u>2,4,7 and 13-16</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	5) Claim(s) is/are allowed.						
•	6) Claim(s) 2,4,7 and 13-16 is/are rejected.						
•	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 							
Copies of the certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Sum	nmary (PTO-413) fail Date				
3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		mal Patent Application				

Application/Control Number: 10/644,411

Art Unit: 1618

DETAILED ACTION

Claims 2,4,7 and 13-16 are pending in the application. Claims 1 and 3 were cancelled in the amendment filed 9/12/07. Any objections and/or rejections from previous office actions that have not been reiterated in this office action are obviated.

Response to Arguments

1. Applicant's arguments filed 9/12/07 have been fully considered but they are not persuasive.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 2,4,7,13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tang et al. (US 6,133,305) in view of Tang et al. (US 5,792,783) as stated in the office action mailed 3/12/07. The modified rejection was necessitated by the amendment.
- 4. Applicant asserts that there is only a generic disclosure for an imidazolylmethylene at the 3-position in the reference of Tang et al. (US 5,792,783).
- 5. As Tang et al. (US 5,792,783) does disclose the possible substitution of an imidazolylmethylene at the 3-position it would be obvious to perform the substitution as the application of the substitution generates predictable results.

Application/Control Number: 10/644,411 Page 3

Art Unit: 1618

6. Applicant asserts that the generic disclosure of Tang et al. (US 6,133,305) is massive and the indolinones substituted at the 3-position with a pyrrol-2-ylmethylidenyl or imidazol-4-ylmethylidenyl are substituted at the 5 and 7 positions with halogen atoms and not with substitutents of the instant claims.

- 7. The reference of Tang et al. (US 5,792,783) was used to teaches aryl, such as heterocyclic aryl (not excluding pyridyl) or acetylamino NHC(O)R at the 5-position and in combination with the reference of Tang et al. (US 6,133,305) it would be obvious to try/substitute the groups of Tang et al. (US 5,792,783), regardless of the number of possible substitutions, for the C-5 halogens of Tang et al. (US 6,133,305). Both disclosures are drawn to similar/comparable products, such as compounds having indolinone cores that modulate kinase activity and the substitution would provide predictable results. It is obvious to those skilled in the art to make known substitutions on compounds that are similar in structure and function to observe the effects on the function of such compounds and to use the observations/data to further manipulate a compound to generate the desired effect
- 8. Applicant's attention is directed to KRS International Co. v. Teleflex Inc., 550 U.S.-, 82 USPQ2d 1385 (2007).
- 9. Applicant asserts that Tang et al. (US 5,792,783) and Tang et al. (US 6,133,305) do not describe the use of the compounds as specific inhibitors of CDK-1, in particular in order to stop cell proliferation at phase G2/M. The intended use of specific inhibitors of CDK-1 is not afforded any patentable weight. "The recitation of a new intended use for an old product does not make a claim to that old product patentable." *In re*

Application/Control Number: 10/644,411

Art Unit: 1618

Schreiber, 44 USPQ2d 1429 (Fed. Cir. 1997). Also, the instant claims do not recite that the compounds are inhibitors of CDK-1.

- 10. Claims 2,4,7,13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tang et al. (US 5,792,783) as stated in the office action mailed 3/12/07. The modified rejection was necessitated by the amendment.
- 11. Applicant asserts that the genera of Tang et al. (US 5,792,783) is enormous and that to arrive as the present invention, one must make the multiple selections (8 variable moieties) disclosed by the examiner. Applicant asserts that none of the compounds exemplified contain an imidazolylmethylene moiety or a pyridyl moiety at the 5-position.
- 12. Tang et al. (US 5,792,783) discloses the selections disclosed by the examiner (8 variable moieties) and it would be obvious to try/utilize the groups of Tang et al. (US 5,792,783), regardless of the number of possible substitutions, since any combination is obvious and the results would be predictable. It is obvious to those skilled in the art to make known substitutions on compounds that are similar in structure and function to observe the effects on the function of such compounds and to use the observations/data to further manipulate a compound to generate the desired effect.
- 13. Applicant's attention is directed to KRS International Co. v. Teleflex Inc., 550 U.S.-, 82 USPQ2d 1385 (2007).

Application/Control Number: 10/644,411

Art Unit: 1618

Conclusion

No claims are allowed at this time.

14. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa Perreira whose telephone number is 571-272-1354. The examiner can normally be reached on 9am-5pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Hartley can be reached on 571-272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/644,411 Page 6

Art Unit: 1618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MP September 25, 2007

> MICHAEL G. HARTLEY SUPERVISORY PATENT EXAMINER